

# Michigan Flu Focus

Weekly Influenza Surveillance Report



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**February 28, 2020** 

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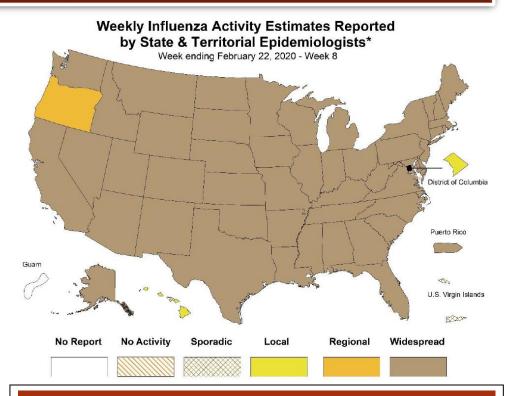
Week Ending February 22, 2020 | WEEK 8

Michigan Influenza Activity				
No Activity				
Sporadic				
Local				
Regional				
<u>Widespread</u>				

<sup>\*</sup>Clicking on the current activity level will direct you to the CDC webpage defining each activity level for the geographic spread of influenza

## **Updates of Interest**

The Michigan Department of Health and Human Services has confirmed two influenza-associated pediatric deaths for Week 8. The reported deaths involve children from the southeast region of Michigan and were infected with the influenza B virus. This brings the current confirmed total of influenza-associated pediatric deaths in Michigan to 4 for the 2019-2020 influenza season.



## Influenza-associated Pediatric Mortality

Nationally, 125 influenza-associated pediatric deaths have been reported thus far for the 2019-2020 flu season. Four (4) pediatric influenza (B) deaths have been confirmed by MDHHS during this season.

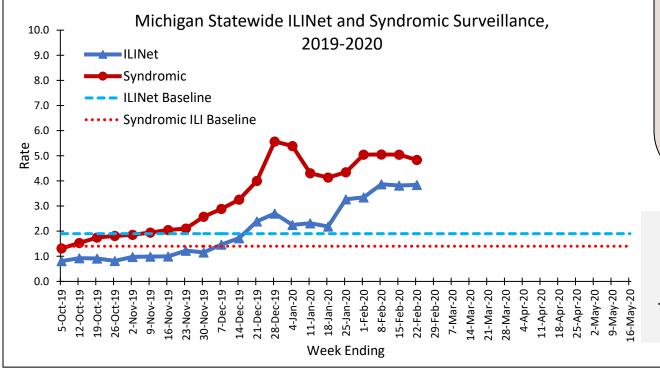
## U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan's influenza surveillance. ILINet provides data on the total number outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI). For this system, ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat without a known cause other than influenza.

#### Number of Reports and ILI % by Region in Michigan during this time period:

Region	С	N	SE	SW
No. of Reporters <b>Total (28)</b>	6	6	10	4
ILI %	1.7	6.6	4.7	4.4

Data is provisional and may change as additional reports are received.



# Michigan ILI Activity

**3.8**%

(Last week: 3.8%)

Regional Baseline\*: 1.9% A total of 409 patient visits due to ILI were reported out of 10,637 office visits during this period.

### **National Surveillance**

In the United States, <u>5.5</u> % of outpatient visits were due to ILI. (Last week: 6.1%)
This is **above** the national baseline of 2.4%

#### Become an ILINET provider!

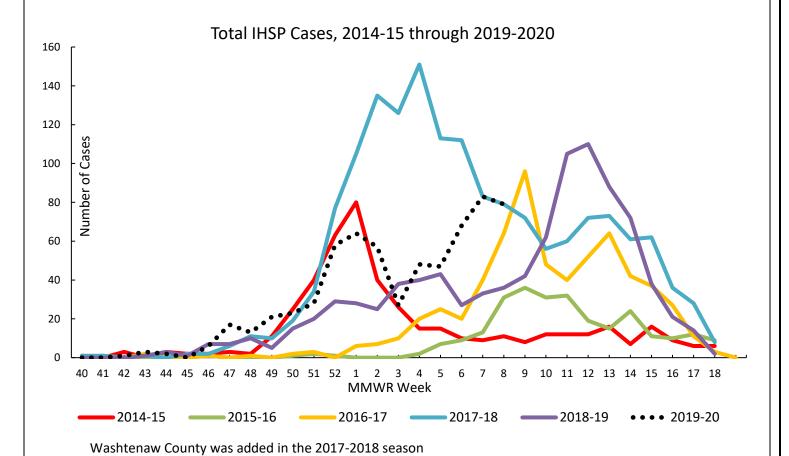
Contact Shelly Doebler at <a href="DoeblerM@michigan.gov">DoeblerM@michigan.gov</a>

<sup>\*</sup>Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations

## Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1<sup>st</sup> through April 30<sup>th</sup> each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were **79** (10 pediatric, 69 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1<sup>st</sup>, **645** (**116** pediatric, **529** adult) influenza-related hospitalizations were reported in the catchment area for the 2019-2020 season.



# Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide flu surveillance

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide is aggregated by region and can assist providers and public health in recognizing changes in the age or geographic distribution of flu in this population.

If your facility is interested in participating or would like more details, please contact Sue Kim (KimS2@michigan.gov)

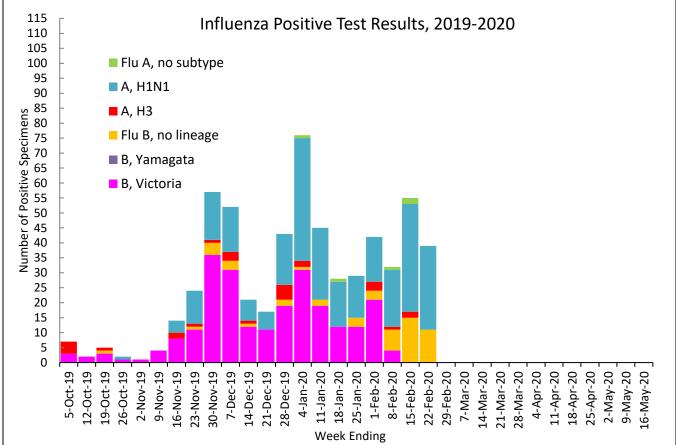
## Laboratory (Virologic) Surveillance

There were 39 new positive influenza results (27C, 0N, 2SE, 10SW) reported by the MDHHS Bureau of Laboratories (BOL) during this time period.

#### # of Positive Respiratory Virus Results by Region

	С	N	SE	SW	Total
H1N1	108	26	36	99	269
H3N2	4	0	12	10	26
Infl B	105	6	64	120	295
Total	217	32	112	229	590

Data is provisional and may change as additional results are reported.



Note: Flu B subtyping will be reported based on MDHHS BOL testing runs and will be backtracked into this graph Latest MDHHS BOL Flu B lineage determination run: February 28, 2020

#### **Michigan Sentinel Clinical Lab Network Respiratory Virus Data**

Fourteen (14) sentinel clinical labs (3SE, 2SW, 7C,

` ′	ported during this week		
SE Region			
Influenza A:	high – very high		
Influenza B:	high; decreasing		
Parainfluenza:	low		
RSV:	moderate; decreasing		
Adenovirus:	slightly elevated		
hMPV:	elevated		
Central Region			
Influenza A:	moderate; variable		
Influenza B:	moderate; some decreases		
Parainfluenza:	sporadic – low		
RSV:	low –slightly elevated; some		
	decreases		
	1 -		

SW Region			
Influenza A: moderate; increasing			
Influenza B:	moderate; decreasing		
Parainfluenza:	sporadic – low		
RSV:	elevated; decreasing		
Adenovirus:	low		
hMPV:	slightly elevated		

low - slightly elevated

Adenovirus: low

hMPV:

	North Region
Influenza A:	elevated; some increases
Influenza B:	elevated
Parainfluenza:	sporadic
RSV:	low
Adenovirus:	sporadic – low
hMPV:	sporadic – low
•	

## **Congregate Setting Outbreaks**

There were **19** new respiratory outbreaks (6C, 2N, 10SE, 1SW) reported to MDHHS during this time period. Respiratory outbreaks for the 2019-2020 season are listed in the table below.

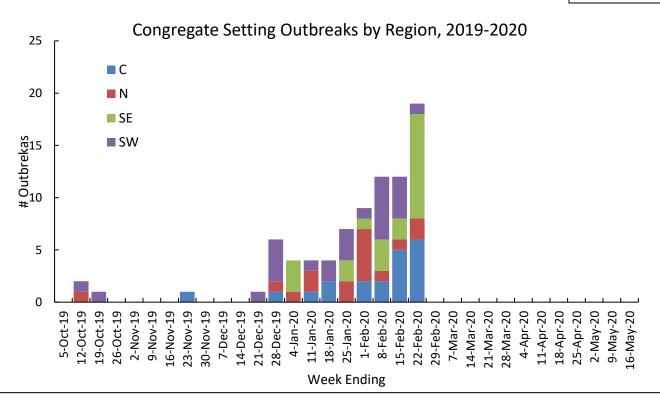
#### # of Congregate Setting Outbreaks by Region

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Facility Type	С	Ν	SE	SW	Total
Schools: K-12 & College	1	8	2	7	18
Long-term Care / Assisted Living Facility	15	5	14	16	50
Healthcare Facility	1	0	4	0	5
Daycare	0	0	0	0	0
Homeless Shelter	1	0	1	0	2
Correctional Facility	2	3	0	2	7
Other	0	0	0	0	0
Total	20	16	21	25	82

### Did you know?

Congregate setting outbreaks of viral respiratory illnesses are required to be reported to your local health department? See:

- Influenza Guidance for Healthcare Providers
- <u>Guideline for influenza and</u>
   <u>Respiratory Virus Outbreaks in</u>
   <u>Long-Term Care Facilities</u>



#### **Influenza Vaccine Updates**

Interim Estimates of 2019-2020 Seasonal Flu Vaccine Effectiveness
On February 20, 2020, CDC issued interim vaccine effectiveness
estimates for the 2019-2020 flu season in an MMWR. These estimates
describe data from 4,112 children and adults enrolled in the U.S
Influenza Vaccine Effectiveness Network through January 25, 2020.

#### **Key Findings**

- Overall VE against any influenza virus: 45% (95% CI = 36%-53%)
- VE against influenza **B/Victoria viruses: 50%** (95% CI = 39%-59%)
- VE against influenza A/H1N1 viruses: 37% (95% CI = 19%-52%)
- Among children aged 6 months through 17 years VE: 55% (95% CI = 42%-65%)

These estimates are consistent with flu VE from previous seasons when flu vaccine viruses were similar to circulating flu viruses.

Vaccination effort should continue because significant flu activity is expected to persist for weeks.

It is especially important that **children aged 6 months through 8 years** who are recommended to receive their second dose of flu vaccine for this season **get the second dose**. Currently in Michigan as of December 31, 2019, our 2-dose flu coverage for children who are recommended to receive 2 doses of flu vaccine this season is only **5.6%**. Check out this **useful tool** for more information about 2-dose flu recommendations.

#### **Influenza News Blast**

- Global Flu Surveillance Update
- Relative Effectiveness of Flu Vaccines in Seniors
- FDA Approves Quadrivalent
   Adjuvanted Flu Vaccine for Seniors
- NEW Study: Influenza Vaccine During Pregnancy and 6-month Infant <u>Development</u>
- Immunization Schedules, 2020
- NBC News: Anti-vaxxers on Facebook urged a mom not to get her son Tamiflu. He later died.
- Flu Forecasting Tool: FluSight

#### **Additional Resources**

- MDHHS Influenza Webpage
- MDHHS Bureau of Laboratories
   (BOL) Webpage and Test Request

   Forms
- CDC FluView Weekly Report
- NFID Flu and Chronic Health Conditions Toolkit
- <u>CDC Healthcare Professionals Flu</u> Toolkit
- Immunization Action Coalition: Ask the Experts- Flu
- MDHHS- Influenza Vaccine F.A.Q. View Michigan Flu Focus Report archives here

#### **Influenza Burden Estimates**

The Centers for Disease Control and Prevention (CDC) have once again begun to release <u>preliminary burden</u> <u>estimates</u> for the 2019-2020 influenza season.

Between October 1, 2019 through February 22, 2020 it is estimated that there have been:

- 32 million 45 million flu illnesses
- 14 million 21 million flu medical visits
- 310,000 560,000 flu hospitalizations
- 18,000 46,000 flu deaths

Additionally, there have been 125 confirmed flu-associated pediatric deaths for the 2019-2020 flu season.

Influenza activity continues to be elevated throughout the country. Check out <a href="CDC's Weekly Influenza Surveillance">CDC's Weekly Influenza Surveillance</a> Report for more information.

Remember: It is not too late to get vaccinated! Get your flu shot!

#### **MDHHS Contributors**

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